

## Modified Permit Fact Sheet

### General Information

Permit Number:	WI-0003182-10-1
Permittee Name:	Eau Galle Cheese Factory Inc
Address:	N6765 State Hwy 25
City/State/Zip:	Durand WI 54736-4209
Receiving Water:	the groundwaters of the Lower Chippewa River Basin via seepage and landspreading in Pepin County

### Facility Description

The Eau Galle Cheese Factory manufactures cheese, as well as butterfat from milk and whey, which is separated and sold to other dairies. Noncontact cooling water (NCCW) and boiler blow down is discharged to an infiltration ditch or absorption trench (sample point 003). Whey permeate, wash water, regeneration wastewater from Eau Galle Cheese's water supply water softening and nitrate ion exchange system, as well as boiler blow down will be landspread on Department approved fields or discharged to manure storage structures (sample point 002). February 2020 the facility has been approved to give waste salt brine water to local government entities during the winter months for use as a deicing agent of roadways (sample point 005).

Sample Point Designation	
Sample Point Number	Sample Point Location, Waste Type/sample Contents and Treatment Description (as applicable)
<b>002</b> Land application of industrial process water.	Representative samples shall be collected prior to land application. The discharge is limited to whey permeate, process wastewater boiler blowdown and water supply system regeneration wastewater from water softening and nitrate ion exchange.
<b>003</b> Land treatment of NCCW	Representative samples shall be taken prior to discharge to the seepage area. Discharge is limited to noncontact cooling water (NCCW).
<b>005</b> <i>New outfall</i> Beneficial reuse of salt brine.	Land application of brine is approved for beneficial reuse as a road deicer. Regulated as an industrial liquid waste. Representative samples shall be collected from the brine storage tank loadout pipe.

## 1 Land Treatment – Proposed Monitoring and Limitations

### Sample Point Number: 003- NCCW TO SEEPAGE

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Flow Rate		gpd	Monthly	Estimated	
Temperature	Daily Max	120 deg F	Monthly	Grab	

## Changes from Previous Permit & Explanation of Limits and Monitoring Requirements:

No changes from the previous permit. Requirements for land treatment of industrial wastewater are determined in accordance with ch. NR 214 Wis. Adm. Code. The temperature limit is contained in NR 102.245 and is used to protect the public (and wildlife) from burning as a result of the water temperature.

## 2 Land Application - Sludge/By-Product Solids (industrial only)

### Sample Point Number: 002- LANDSPREADING of INDUSTRIAL WW

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Nitrogen, Total Kjeldahl		mg/L	Monthly	Grab	
Chloride		mg/L	Monthly	Grab	

## Changes from Previous Permit & Explanation of Limits and Monitoring Requirements:

No changes from the previous permit. Requirements for land application of industrial sludge are determined in accordance with ch. NR 214 Wis. Adm. Code

### Sample Point Number: 005- BENEFICIAL REUSE OF BRINE

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Volume		gal	Annual	Measure	
BOD5, Total		mg/L	Annual	Grab	
Nitrogen, Total Kjeldahl		mg/L	Annual	Grab	
Chloride		mg/L	Annual	Grab	
pH Field		su	Annual	Grab	

## Changes from Previous Permit & Explanation of Limits and Monitoring Requirements:

This is a new sample point. February 2020 the department granted a low hazard waste exemption use of waste salt brine liquid from cheese production as a de-icing agent on Wisconsin highways. Waste salt brine liquid is produced from ultra-filtration of brine water; it is then mixed with sand/salt and spread on roadways. The addition of the waste brine greatly increases the effectiveness of the sand/salt.

**Volume** – Recording the amount of brine is required to track the volume distributed to governmental agencies.

**BOD, Total Kjeldahl Nitrogen and Chloride** – These parameters were analyzed by the Department’s Solid Waste Program when granting the low hazard waste exemption. Annual monitoring is proposed to ensure BOD stays within the conditional approval. The data shall be used by the department’s Solid Waste Program during future low hazard exemption reissuances.

An Annual Report shall be submitted to the Solid Waste and Wastewater program by June 1st of each year identifying where all waste brine is sent (Municipalities or Permitted Wastewater Treatment Facility) including the dates and volumes distributed (see Schedules for more information).

### 3 Schedules

#### 3.1 Brine Annual Report

Required Action	Due Date
Submit Annual Brine Report: The report submitted to the Solid Waste and Wastewater programs shall summarize the use of brine as a deicing agent during the previous year (May 1st through April 30th) and will include:  1) The total volume of waste salt brine liquid distributed to local municipalities.  2) List of the municipalities that received the brine as well as the dates and volumes of brine distributed to each municipality.  3) The total volume of waste salt brine liquid sent to other permitted wastewater facilities for further treatment and the name(s) of those facilities.	06/01/2021
Submit Annual Brine Report:	06/01/2022
Submit Annual Brine Report: Annual reports shall continue to be submitted by June 1st of each year until permit reissuance.	

#### Explanation of Compliance Schedules

The schedule is a new addition to the permit.

**Brine Annual Report** – The annual report identifies the Municipalities or Permitted Wastewater Treatment Facility, the dates and volumes distributed May 1<sup>st</sup> through April 30<sup>th</sup> for the previous year.

#### Attachments:

“Conditional Grant of Low Hazard Waste Exemption for Use of Waste Salt Brine as a Roadway Deicing Additive” letter dated February 5, 2020

#### Expiration Date:

June 30, 2020

#### Justification Of Any Waivers From Permit Application Requirements

N/A – Permit modification

**Prepared By:**

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**Date:** September 23, 2020

cc: Adebowale Adesanwo, WDNR - Baldwin